# **LMA District Cover Sheet**

## **Spring 2015 Levee Inspection Results**

# **Sutter Maintenance Yard Maintenance Area 0016**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	ct overall annual rating.
* SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not detern d using the same crite			lual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			ion and maintenance de nded to be an indiction o	
Comments				

#### **Unit Cover Sheet**

### **Spring 2015 Levee Inspection Results**

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles
Unit No. 01 Feather River	Right	4.06

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/05/2015 - 05/05/2015			
DWR Inspector	Michael Pitta			
Accompanied By	Sean Freitag			

#### **Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Spring 2015

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start		Rating **	Α	Issue No.		3	
LM End		Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS La	atitud	le/Longitude	
Calegory				Start	End		
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_MAG	016_01_s _ 201	3_3				
		Action/	Comme	nts			
Inconcetor (	Commonto	. The ORM m	opuolo c	ro located	ot th	o Cuttor	

Inspector Comments: The O&M manuals are located at the Sutter Maintenance Yard.

No Photos

No Photos

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ма	Location *		WS	
Category	Earthen L		GPS La	atitud	le/Longitude		
Calegory	Start					End	
Itom	Flood Pre	paredness &	Training		0		0
item	Item				0		0
DWR ID DWR_MA0016_01_s _ 2013_4							
		Action/	Commer	nts			

Inspector Comments: Sutter maintenance yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.

LM Start		Rating **	Α	Issue No.		5	
LM End		Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS La	atitud	le/Longitude	
Calegory	Sategory					End	
Item		cy Supplies &			0		0
пеш	Equipmer	nt			0		0
DWR ID DWR_MA0016_01_s _ 2013_5							
	Action/Comments						

Inspector Comments: Emergency supplies and equipment are stored at the Sutter Maintenance Yard.

No Photos

Location LS : Land Side N/A : Not Applicable WS: Water Side

CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

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# Levee Inspection Report By Mile - Spring 2015

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	0.00	Rating **	С	Issue No.		13	
LM End	4.09	Issue Type +	Ma	Location *	CR		
Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Encroach	Encroachments			0		0
пеш					0		0
DWR ID	DWR_MAG	016_01_f _ 201	4_13				
		Action/	Comme	nts			
Material							

No Photos

LM Start	0.06	Rating **	М	Issue No.	2		
LM End	0.10	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetatio	n		39.2566	18 °	39.257228 °	
item				-121.636442 °		-121.636462 °	
DWR ID	DWR_MA0	016_01_s _ 201	12_2				
		Action/	Comme	nts			
Landscapi	ng						



Levee mile 0.10. This photo shows the landscaping on the landside slope and toe.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## **Levee Inspection Report By Mile - Spring 2015**

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	0.11	Rating **	М	Issue No.		26
LM End	0.11	Issue Type + En		Location *	LS	
Category	Supplemental GPS Latitude/Longit			e/Longitude		
Calegory				Start		End
Item	DWR UC	IP Field Study		39.25730	3°	39.257308
пеш				-121.63658	2 °	-121.636582
DWR ID						

Action/Comments

Inspector Comments: FS\_ID:43324

DS\_ID:17180 EP\_NO: 4719

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 2/11/2015: Revised Location and added arial photo showing U-shaped concrete headwall on LS toe. Pipe should be completely removed from leved Inable to locate any evidence of crossing 12/11/121/6/2013 Unable to locat 6/19/2014 SBFCA project had levee access blocked. Could not get to pipe 2/29/2014 Access bocked due to SBFCA project.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 36 inch CMP drainpipe through the levee 22-feet below the crown. Concrete U-shaped headwall on LS toe. Originally included in O+M manual at 473+30. Pipe was abandoned in place and a concrete plug was installed in WS slope after pipe failed in 1964 under permit No. 4556.

FS Date: 12/30/2014

No Photos

LM Start	0.18	Rating **	М	Issue No.		15
LM End	0.18	Issue Type +	En	Location *	LS	
Category	evee		GPS Latitude/Longitude			
Calegory	alegory					End
Item	Encroach	ments		39.2584	37 °	39.258437 °
пеш				-121.6366	13 °	-121.636613 °
DWR ID DWR_MA0016_01_s _ 2012_15						
Action/Comments						

Building

# Photo 1 of 1: SP\_2015\_MA0016\_302\_15\_20150401\_00008.jpg



Levee mile 0.18. This photo shows the building on the landside shoulder and toe.

N: Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence En : Enforcement

# **Levee Inspection Report By Mile - Spring 2015**

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	0.23	Rating **	С	Issue No.		20
LM End	0.23	Issue Type +	Ма	Location *		LS
Catagoni Earthen Levee			GPS Latitude/Longitude			
Category				Start End		
Item	Animal Co	ontrol		39.2591	73 °	39.259173
пеш				-121.6366	67 °	-121.636667
DWR ID DWR_MA0016_01_f _ 2013_20						
	Action/Comments					

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

No Photos

LM Start	0.26	Rating **	A/W	Issue No.		16
LM End	3.19	Issue Type +	Ма	Location *		LS
Catagoria Earthen Levee			GPS Latitude/Longitude			
Category				Start		End
Item	Vegetatio	n		39.2595	98 °	39.298393 °
item				-121.6366	28 °	-121.638324 °
DWR ID DWR_MA0016_01_s _ 2015_16						

#### Action/Comments

Control annual grass and weeds on the levee slopes and easements.



This view of the vegetation was taken on the landside facing upstream

LM Start	0.26	Rating **	A/W	Issue No.	17		
LM End	3.19	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS La	titud	le/Longitude		
Calegory			Start		End		
Item	Vegetatio	n		39.25959	98 °	39.298393	0
пеш				-121.63662	28 °	-121.638324	0
DWR ID	DWR_MAG	016_01_s _ 201	5_17				
		Action/	Comme	nts			

Control annual grass and weeds on the levee slopes and easements.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2015

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	0.44	Rating **	U	Issue No.		7	
LM End	0.49	Issue Type +	En	Location *		LS	_
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.2622	13°	39.262825	0
пеш				-121.6365	45 °	-121.636430	0
DWR ID	DWR_MA0	016_01_s _ 201	12_7				
		Action/	Comme	nts			
Building							



Levee mile 0.49. This photo shows the building and landscaping on the landside slope and toe.

LM Start	1.15	Rating **	С	Issue No.		11	
LM End	1.15	Issue Type +	En	Location *		LS	
Category	evee	GPS La	atitud	le/Longitude			
Calegory	Category			Start		End	
Item	Encroachments			39.272228 °		39.272228 °	
пеш				-121.6337	21 °	-121.633721 °	
DWR ID	DWR_MAG	016_01_s _ 201	14_11				
Action/Comments							
Debris Inspector Comments: Concrete on landward levee slope. Spring 2014.							

No Photos

Location LS : Land Side N/A : Not Applicable WS: Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

## **Levee Inspection Report By Mile - Spring 2015**

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	1.44	Rating **	М	Issue No.		27	
LM End	1.44	Issue Type +	En	Location *		LS	
Category			GPS Latitude/Longitude				
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.276170	°	39.276170	0
пеш				-121.632598	°	-121.632598	0
DWR ID							

Action/Comments

Inspector Comments: FS\_ID:42752

DS\_ID:17177 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Inlet heavily vegitated may need to be cleared outs/14/2013 SBFCA project recommends replacing in accordance with title 23/14/2013 Same as last inspection 1/6/2013 Same as last inspectios/19/2014 SBFCA project had levee access blocked. Could not get to pipe 2/29/2014 Access bocked due to SBFCA

FIELD\_STRUCT\_DESC: 36 inch steel drain pipe approximately 16-feet below the crown. Headwall and Model No. 100 flapgate of WS toe. Headwall and 24-inch concrete standpipe drop-inlet located

approximately 1000-feet west of levee crown just on west side of canal.

O&M Sac 148 Revision: February 2011

FS Date: 12/30/2014

LM Start	1.63	Rating **	A/W	Issue No.		18	
LM End	1.63	Issue Type +	En	Location *		WS	
Catagoni Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Encroachments		39.278943 °		39.278943 °		
Item				-121.63329	91 °	-121.633291 °	
DWR ID	DWR_MAG	016_01_s _ 201	15_18				
		Action/	Comme	nts			
Prunings							

No Photos

No Photos

Thursday, June 11, 2015 13:14

WS: Water Side CR : Crown

A: Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

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# Levee Inspection Report By Mile - Spring 2015

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	1.63	Rating **	С	Issue No.	12		
LM End	1.63	Issue Type +	En	Location *	LS		
Catagoni Earthen Levee			GPS La	titud	le/Longitude		
Calegory	Category			Start		End	
Item	Encroach	ments		39.2789	78 °	39.278978	0
пеш				-121.6332	78 °	-121.633278	0
DWR ID	WR ID DWR_MA0016_01_s _ 2014_12						
	Action/Comments						

Prunings

Inspector Comments: Dead Prune trees placed on landward levee slope. Spring 2014.

No Photos

1.71 Rating \*\* A/W Issue No. 19 LM Start Location \* LM End 1.71 Issue Type + En WS Earthen Levee GPS Latitude/Longitude Category Start End Encroachments 39.280104 ° 39.280104° Item -121.632890 ° -121.632890 ° DWR ID DWR\_MA0016\_01\_s \_ 2015\_19 Action/Comments

Equipment

No Photos

LM Start	2.85	Rating **	М	Issue No.		14
LM End	3.08	Issue Type +	En	Location *		LS
Category Earthen Levee			GPS La	titud	le/Longitude	
Calegory				Start		End
Item	Encroach	ments		39.293675 °		39.296748 °
пеш				-121.6366	15 °	-121.638192 °
DWR ID	DWR_MAG	0016_01_s _ 201	12_14			
		Action/	Comme	nts		
Ditch						

Photo 1 of 2 : SP\_2015\_MA0016\_302\_14\_20150401\_00006.jpg

Agricultural ditch land side slope and toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Spring 2015

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	2.85	Rating **	М	Issue No.	14 (cont)	
LM End	3.08	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroach	ments		39.2936	75 °	39.296748 °
пеш				-121.6366	15 °	-121.638192 °
DWR ID	DWR_MA0	016_01_s _ 201	12_14			
		Action/	Comme	nts		
Ditch						

Photo 2 of 2 : SP\_2015\_MA0016\_302\_14\_20150401\_00007.jpg



Land side ditch levee mile 3.08.

LM Start	2.86	Rating **	М	Issue No.		28
LM End	2.86	Issue Type + En		Location *		LS
Supplemental				GPS La	atitud	le/Longitude
Category				Start		End
Item	DWR UC	IP Field Study		39.2937	74 °	39.293774 °
пеш				-121.6366	12 °	-121.636612 °
DWR ID						

Action/Comments

Inspector Comments: FS\_ID:42746

DS\_ID:17175 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Inlet and outlet largely covered in sediment and vegitation. This should be cleare 6/14/2013 SBFCA project recommends replacing in accordance with title 23/14/2013 Same as last inspection 1/6/2013 Same as last inspection 5/19/2014 SBFCA project appears to have removed pipe 2/29/2014 Access bocked due to SBFCA project.

FIELD\_STRUCT\_DESC: 18-inch concrete pipe through the levee approximately 15-feet below the crown. Headwalls on both ends and a Model No. 100 slide gate on WS toe. O&M Sac 148 Revision: February

2011.

FS Date: 12/30/2014

No Photos

## Levee Inspection Report By Mile - Spring 2015

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	2.86	Rating **	М	Issue No.		25
LM End	2.86	Issue Type +	En	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Vegetatio	n		39.2938	65 °	39.293865 °
пеш				-121.6366	90 °	-121.636690 °
DWR ID	DWR_MA0	016_01_f _ 201	3_25			
		Action/	Comme	nts		
Landscapi	ng					

No Photos

Rating \*\* Issue No. LM Start 3.19 Μ 21 Issue Type + LM End 3.41 Ma Location \* LS Earthen Levee GPS Latitude/Longitude Category Start End 39.298393 ° Vegetation 39.301509° Item -121.638325 ° -121.638329 ° DWR ID DWR\_MA0016\_01\_s \_ 2015\_21 Action/Comments

No Photos

Control annual grass and weeds on the levee slopes and easements.

LM Start	3.19	Rating **	М	Issue No.	22		
LM End	3.38	Issue Type +	Ma	Location *	WS		
Earthen Levee			GPS La	atitud	le/Longitude		
Calegory	Category					End	
Item	Vegetatio	n		39.2983	94 °	39.301084	0
пеш			-121.6383	25 °	-121.638370	0	
DWR ID DWR_MA0016_01_s _ 2015_22							
	Action/Comments						

No Photos

Control annual grass and weeds on the levee slopes and easements.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## Levee Inspection Report By Mile - Spring 2015

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	05/05/2015 05/05/2015	Michael Pitta

LM Start	3.27	Rating **	М	Issue No.		23
LM End	3.27	Issue Type +	En	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Encroach	ments		39.2995	16 °	39.299516 °
пеш				-121.6383	35 °	-121.638335 °
DWR ID	DWR_MAG	016_01_s _ 201	15_23			
		Action/	Comme	nts		
Prunings						

No Photos

Rating \*\* Issue No. LM Start 3.39 Μ 29 3.39 Issue Type + En Location \* WS LM End Supplemental GPS Latitude/Longitude Category End Start DWR UCIP Field Study 39.301218° 39.301218 ° Item -121.638332 ° -121.638332 ° DWR ID

No Photos

#### Action/Comments

Inspector Comments: FS\_ID:42745

DS\_ID:17183 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Pipe burried on LS toe and should be inspected along with adjacent 24-inch once uncovere**6**/14/2013 SBFCA project recommends replacing in accordance with title 2**3**/14/2013

Same as last inspection 1.1/6/2013 Same as last

inspection 19/2014 Same as last inspection 12/29/2014 Same as last inspection.

FIELD\_STRUCT\_DESC: 2 of 2: 24-inch CMP drain pipe through the levee 16.6-feet below the crown. Headwalls at both ends and a Flap gate on the WS toe.

FS Date: 12/30/2014